

10/22/03
16569 U.S. PTO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.: 5649-942DV
DATE: October 22, 2003

PATENT

22264 U.S. PTO
10/690763
102203

**UTILITY PATENT APPLICATION TRANSMITTAL LETTER
AND FEE TRANSMITTAL FORM (37 CFR § 1.53(b))**

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing under 37 CFR § 1.53(b) is:

- ☐ a patent application
☐ a Continuation ☒ a Divisional ☐ a Continuation-in-Part (CIP) Application of prior application no.: 10/101353, filed March 19, 2002, the disclosure of which is incorporated herein by reference in its entirety.
☐ and claims the benefit of Provisional Application No. _____; filed _____.

Inventor(s) or Application Identifier:

Eun-ae Chung – Kyungki-do, Republic of Korea
Doo-sup Hwang – Kyungki-do, Republic of Korea
Cha-young Yoo – Kyungki-do, Republic of Korea

Entitled: **METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICES AND INTEGRATED CIRCUIT CAPACITORS WHEREBY DEGRADATION OF SURFACE MORPHOLOGY OF A METAL LAYER FROM THERMAL OXIDATION IS SUPPRESSED**

Myers Bigel Sibley & Sajovec, P.A.
P. O. Box 37428
Raleigh, North Carolina 27627
Telephone: (919) 854-1400
Facsimile: (919) 854-1401
Customer No. 20792

Enclosed are:

1. ☒ Application Transmittal Letter and Fee Transmittal Form (*A duplicate is enclosed for fee processing*)
2. ☒ 11 pages of Specification (including 12 claims)
3. ☒ 7 sheets of Formal Drawings (35 USC 113)
4. ☒ Oath or Declaration
 - a. ☐ newly executed (*original or copy*)
 - b. ☒ copy from prior application (37 CFR 1.63(d) (*for continuation/divisional*) [Note Box 6 Below]
 - c. ☐ **DELETION OF INVENTOR(S)** (*Signed statement deleting inventor(s) named in the prior application*)
5. ☐ Application Data Sheet. See 37 CFR 1.76
6. ☒ Incorporation By Reference (*useable if box 4b is checked*)

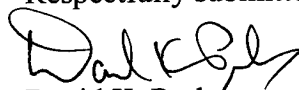
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

7. ☐ Microfiche Computer Program (*Appendix*)
 8. ☒ Assignment papers (*cover sheet(s) and document(s)*) Filed in Parent – Copy not Enclosed.
 9. ☐ Applicant claims small entity status. See 37 CFR § 1.27.
 10. ☒ Information Disclosure Statement and PTO-1449
 11. ☐ Preliminary Amendment (*Please enter all claim amendments prior to calculating the filing fee.*)
 12. ☐ English Translation Document
 13. ☒ Certified Copy of Korean Appl. No. 2001-18961; Filed April 10, 2001 Filed in Parent – Copy not Enclosed.
 14. ☐ Sequence Listing/ Sequence Listing Diskette
 - a. ☐ computer readable copy
 - b. ☐ paper copy
 - c. ☐ statement in support
 15. ☐ An Associate Power of Attorney
 16. ☒ Return Receipt Postcard (MPEP 503) (*Should be specifically itemized*)
 17. ☒ Other: Remarks Accompanying Filing of Divisional Application
- The fee has been calculated as shown below:

	Column 1 No. Filed	Column 2 No. Extra	Small Entity Rate Fee	Large Entity Rate Fee
BASIC FEE			\$385.00	\$ 770.00
TOTAL CLAIMS	12 - 20 =	0	x 09 = \$	x 18 = \$ - 0 -
INDEP CLAIMS	2 - 3 =	0	x 43 = \$	x 86 = \$ - 0 -
<input type="checkbox"/> MULTIPLE Dependent Claims Presented			+ 145 = \$	+ 290 = \$
<i>If the difference in Col. 1 is less than zero, Enter "0" in Col. 2</i>			Total \$	Total \$770.00

- ☒ A check in the amount of **\$770.00** to cover the filing fee is enclosed.
- ☐ A check in the amount of \$ is enclosed to cover the filing fee, PLUS the Assignment Recordation fee (\$40.00).
- ☐ Please charge my Deposit Account No. 50-0220 in the amount of \$.
- ☒ The Commissioner is hereby authorized to credit overpayments or charge the following fees associated with this communication to Deposit Account No. 50-0220:
- a. ☒ Additional filing fees under 37 CFR 1.16 for presentation of extra claims.
 - b. ☒ Additional patent application processing fees under 37 CFR 1.17.

Respectfully submitted,



David K. Purks

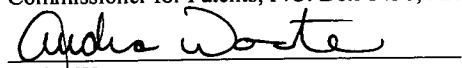
Registration No. 40,133

CERTIFICATE OF EXPRESS MAILING

Express Mail Label No.: EV 318417869 US

Date of Deposit: October 22, 2003

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Audra Wooten

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Chung et al.

Serial No.: To Be Assigned

Filed: Concurrently Herewith

For: **METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICES AND
INTEGRATED CIRCUIT CAPACITORS WHEREBY DEGRADATION OF
SURFACE MORPHOLOGY OF A METAL LAYER FROM THERMAL
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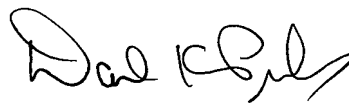
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Commissioner for Patents
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Alexandria, VA 22313-1450

REMARKS ACCOMPANYING FILING OF DIVISIONAL APPLICATION

Dear Sirs:

The present divisional application is being filed with Claims 1 - 12. Claims 1 - 12 of the present divisional application are similar to Claims 22-25; 28-34 from parent application U.S. Serial No. 10/101,353, filed March 19, 2002 directed to non-elected Invention II identified in the Restriction Requirement of the parent application which has been allowed. Favorable examination and allowance of the present divisional application is respectfully requested.

Respectfully submitted,



David K. Purks
Registration No. 44,635

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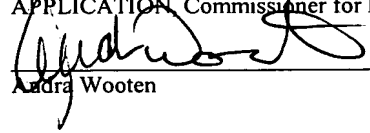
I In re: Park et al.
Serial No.: To Be Assigned
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Page 2

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Andrea Wooten